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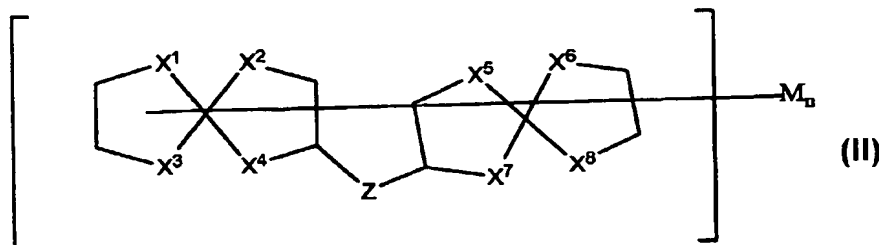
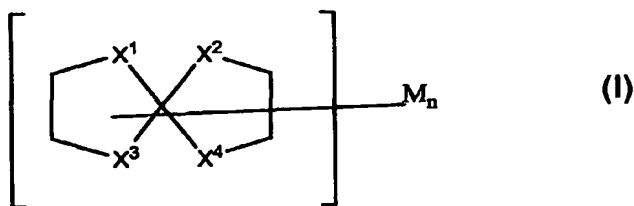
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(54) Title: SPIROTETRATHIOCARBAMATES AND SPIROOXOTHIOCARBAMATES



(57) Abstract: Spirotetrathiocarbamates (STOCs) or oxa substituted compounds (SOTOCs) of Formula (I): (Formula (I)) or bis-STOC or bisSOTOC compounds of Formula (II): (Formula (II)) wherein X¹, X², X³, X⁴, X⁵, X⁶, X⁷, and X⁸, are independently O or S; and preferably at least two and up to all four of X¹, X², X³ and X⁴, and at least two and up to all four of X⁵, X⁶, X⁷, and X⁸ are sulfur; Z is -C_mR²_{2m} wherein m = 1 to 4; -C(R²)₂SC(R²)₂-, C(R²)₂SSC(R²)₂-, or -C(R²)₂OC(R²)₂-, n is from 0 to 4; M is selected from CH₂Cl, CH₂SC(O)R¹, CH₂SC(S)R¹, CH₂S(CH₂CH₂S)qH wherein q is 0, 1 or 2; -CR²=CH₂, -CH₂OC(O)CR²=CH₂, CH₂N=C=S, CH₂N=C=O, CH₂NR²H, CH₂OH, CH₂SCH₂CH₂CR²=CH₂, phenyl, C(R²) phenyl, furan, thiophene, halogen, C₃-C₆ cycloalkyl, C₃-C₆ heterocyclics, thiol, H, (III) or (IV) wherein A is S, O or phenyl; x is 0 or 1; R¹ is C₁-C₂₂ alkyl; and R² is H or C₁-C₂₂ alkyl have excellent optical properties. Methods for preparing these compositions and optical lenses prepared from the compounds are also provided.

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